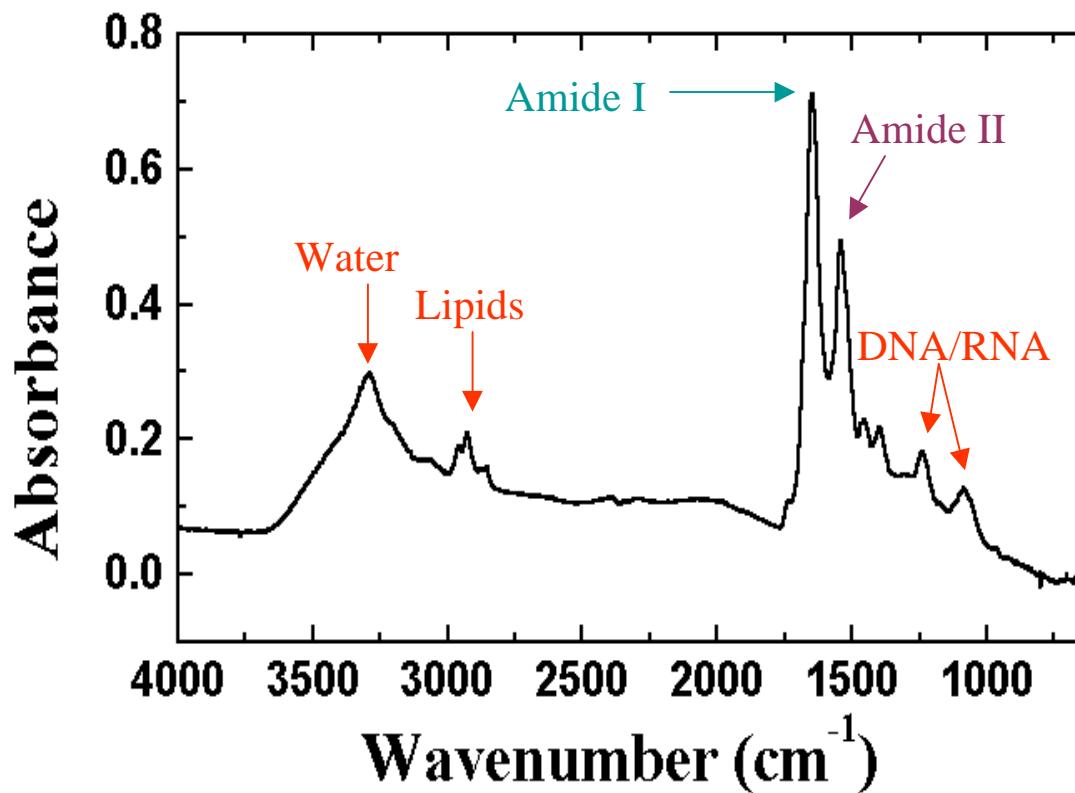
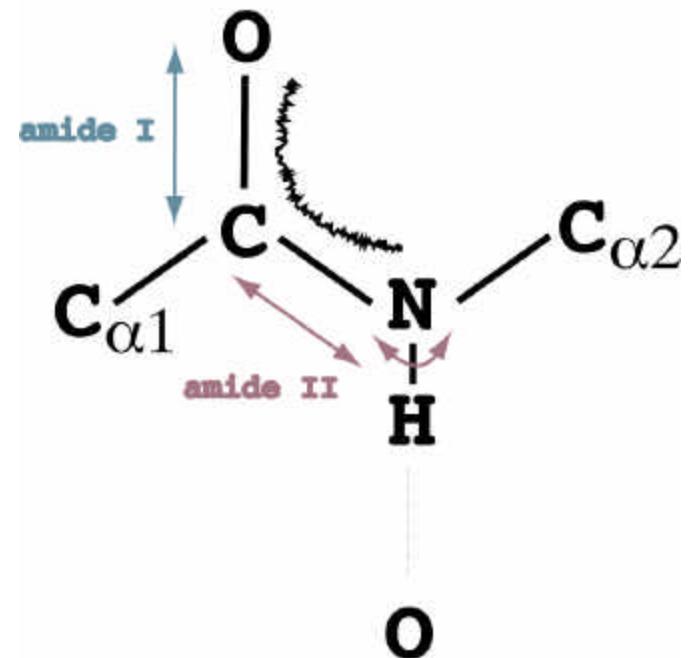


Example infrared spectrum of a biological system



Typical IR absorbance positions:

- Protein Amide I: 1690-1600
- Protein Amide II: 1575-1480
- Lipid $=\text{CH}_2$: 3100-3000
- Lipid $-\text{CH}_2$, $-\text{CH}_3$: 3000-2850
- Nucleic Acid $-\text{PO}_2^-$: 1225, 1084



The peak positions of Amide I and II are sensitive to the protein secondary structure (α -helix, β -sheet, random coils, etc.)